

1                           **(August 2, 2004)**  
2                           **General Membrane Protection for All Membrane Waterproofing Systems**

3                           The membrane material shall be protected from damage due to the paving  
4                           operations. The method of membrane protection for Membrane Systems A and B  
5                           shall be as recommended by the manufacturer of the membrane system and  
6                           approved by the Engineer. The method of membrane protection for Membrane  
7                           System C shall be as specified below.

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9                           No traffic or equipment except that required for the actual waterproofing and paving  
10                          operations will be permitted to travel or rest on the membrane waterproofing until it  
11                          is covered by the HMA overlay.

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13                           **Membrane Protection for Membrane Waterproofing System C**

14                           Prior to overlaying with HMA, the asphalt/rubber mixture shall be covered with  
15                           membrane protection fabric. The fabric shall be aligned and carefully rolled or  
16                           broomed into the asphalt/rubber mixture. Rolling or brooming the fabric into the  
17                           asphalt should be accomplished in such a way that any air bubbles which form  
18                           under the fabric will be removed. This can best be accomplished by brooming from  
19                           the center of the fabric toward the outer edges. Initial alignment is very important  
20                           since the fabric direction cannot be changed appreciably without causing wrinkles.  
21                           If the alignment of the fabric must be changed, the fabric shall be cut and realigned  
22                           overlapping the previous material and proceeding as before. All joints shall be  
23                           overlapped a minimum of 1 inch.

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25                           After the membrane waterproofing has been completed, the fabric shall be cut  
26                           around the top inside of the frame of inlets and laid in a coating of asphalt binder.

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28                           **HMA Overlay**

29                           The membrane manufacturer's recommendations shall be thoroughly considered in  
30                           the application of the HMA overlay particularly as to the type of paving machine,  
31                           laydown temperature of the HMA, protection of membrane while paving, rolling  
32                           temperature and technique, and other items unique to each membrane.  
33                           Differences in application procedure shall be resolved by the Engineer and the  
34                           Engineer's decision shall be final. Vibratory rollers shall not be used on bridge  
35                           decks.